1651

Sterne Kessler Goldstein Fox
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JUL 29 2002
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*Admitted only in Maryland
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July 29, 2002

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Commissioner for Patents
Washington, D.C. 20231

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Re: U.S. Utility Patent Application
Appl. No. 10/091,538; Filed: March 7, 2002
For: **Improved *In Vitro* Synthesis System**
Inventors: Chatterjee, *et al.*
Our Ref: 0942.5250001/RWE/B-C

Sir:

Transmitted herewith for appropriate action are the following documents:

1. Information Disclosure Statement;

2. Fourteen (14) pages of Form PTO-1449 citing forty-three (43) references;

3. A copy of the forty-three (43) cited references; and

4. One (1) return postcard.

It is respectfully requested that the attached postcard be stamped with the date of filing of these documents, and that it be returned to our courier. In the event that extensions of time are necessary to prevent abandonment of this patent application, then such extensions of time are hereby petitioned.

The U.S. Patent and Trademark Office is hereby authorized to charge any fee deficiency, or credit any overpayment, to our Deposit Account No. 19-0036.

Respectfully submitted,

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.

Lawrence J. Carroll, Ph.D.
Agent for Applicants
Registration No. 40,940

RWE/B-C:law
Enclosures

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

Chatterjee, *et al.*

Appl. No. 10/091,538

Filed: March 7, 2002

For: **Improved *In Vitro* Synthesis System**

Confirmation No. 8240

Art Unit: 1651

Examiner: *To be assigned*

Atty. Docket: 0942.5250001/RWE/B-C

Information Disclosure Statement

Commissioner for Patents
Washington, D.C. 20231

Sir:

Listed on accompanying Form PTO-1449 are documents that may be considered material to the examination of this application, in compliance with the duty of disclosure requirements of 37 C.F.R. §§ 1.56, 1.97 and 1.98.

Where the publication date of a listed document does not provide a month of publication, the year of publication of the listed document is sufficiently earlier than the effective U.S. filing date and any foreign priority date so that the month of publication is not in issue. Applicants have listed publication dates on the attached PTO-1449 based on information presently available to the undersigned. However, the listed publication dates should not be construed as an admission that the information was actually published on the date indicated.

The Examiner is referred to the following related, co-pending patent application:

U.S. Patent Application No. 09/518,188, filed March 2, 2000, inventor Hartley, J.L., is listed on the accompanying PTO-1449 forms as document **AS14**.

Applicants reserve the right to establish the patentability of the claimed invention over any of the information provided herewith, and/or to prove that this information may not be prior art, and/or to prove that this information may not be enabling for the teachings purportedly offered.

This statement should not be construed as a representation that a search has been made, or that information more material to the examination of the present patent application

does not exist. The Examiner is specifically requested not to rely solely on the material submitted herewith.

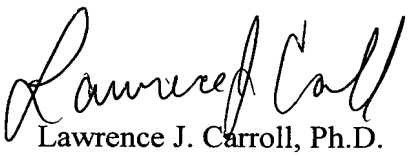
This Information Disclosure Statement is being filed before the mailing date of a first Office Action on the merits or before the mailing of a first Office Action after the filing of a request for continued examination under 37 C.F.R. § 1.114. No statement or fee is required.

It is respectfully requested that the Examiner initial and return a copy of the enclosed PTO-1449, and indicate in the official file wrapper of this patent application that the documents have been considered.

The U.S. Patent and Trademark Office is hereby authorized to charge any fee deficiency, or credit any overpayment, to our Deposit Account No. 19-0036.

Respectfully submitted,

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.



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Date: July 29, 2002

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FORM PTO-1449

INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO.	APPLICATION NO
0942.5250001/RWE/B-C	10/091,538
APPLICANT: Chatterjee *et al.*	
FILING DATE: March 7, 2002	GROUP: 1651

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA						
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FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL1	WO 00/55353	09/21/2000	WIPO			Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	1	Belasco, J.G., "mRNA Degradation in Prokaryotic Cells: An Overview," in: *Control of Messenger RNA Stability*, Belasco, J.G. and Brawerman, G., eds., Academic Press, Inc., San Diego, California, pp. 3-12 (1993)
	AS	1	Benzinger, R., *et al.*, "Transfection of *Escherichia coli* Spheroplasts," *J. Virol.* *15*:861-871, The American Society for Microbiology (1975)
	AT	1	Bonner, G., *et al.*, "Mutations in T7 RNA polymerase that support the proposal for a common polymerase active site structure," *EMBO J.* *11*:3767-3775, IRL Press (1992)

EXAMINER	DATE CONSIDERED

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

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	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	2	Craig, D., *et al.*, "Plasmid cDNA-directed protein synthesis in a coupled eukaryotic *in vitro* transcription-translation system," *Nucleic Acids Research 20*:4987-4995, IRL Press, (1992)
	AS	2	Datsenko, K.A. and Wanner, B.L., "One-step inactivation of chromosomal genes in *Escherichia coli* K-12 using PCR products," *PNAS 97*:6640-6645, National Academy of Sciences (June 2000)
	AT	2	Ellman, J., *et al.*, "Biosynthetic Method for Introducing Unnatural Amino Acids Site-Specificity into Proteins," *Meth. Enzymol. 202*:301-336, Academic Press, Inc. (1991)

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	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	3	Emory, S.A., *et al.*, "A 5'-terminal stem-loop structure can stabilize mRNA in *Escherichia coli*," *Genes & Dev.* 6:135-148, Cold Spring Harbor Laboratory Press (1992)
	AS	3	Eun, H.-M., "5. Phosphatases and Polynucleotide Kinase," in: *Enzymology Primer for Recombinant DNA Technology*, Eun, H.-M., ed., Academic Press, Inc., San Diego, California, pp. 307-344 (1996)
	AT	3	Friedman, S.A. and Hays, J.B., "Selective inhibition of *Escherichia coli* RecBC activities by plasmid-encoded GAMS function of phage lambda," *Gene 43*:255-263, Elsevier Science Publishers B.V. (1986)

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FORM PTO-1449 INFORMATION DISCLOSURE STATEMENT	ATTY. DOCKET NO. 0942.5250001/RWE/B-C	APPLICATION NO. 10/091,588
	APPLICANT Chatterjee *et al.*	
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	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	4	Gros, F., *et al.*, "Unstable Ribonucleic Acid Revealed by Pulse Labelling of *Escherichia coli*," *Nature 190*:581-585, Macmillan Journals, Ltd. (1961)
	AS	4	Iost, I., *et al.*, "Bacteriophage T7 RNA Polymerase Travels Far Ahead of Ribosomes In Vivo," *J. Bacteriol. 174*:619-622, The American Society for Microbiology (1992)
	AT	4	Kawarasaki, Y., *et al.*, "Phosphatase-immunodepleted cell-free protein synthesis system," *J. Biotech. 61*:199-208, Elsevier Science B.V. (1998)

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	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	5	Kim, D.-M., *et al.*, "A highly efficient cell-free protein synthesis system from *Escherichia coli*," *Eur. J. Biochem. 239*:881-886, Springer International (1996)
	AS	5	Kim, D.-M. and Swartz, "Prolonging Cell-Free Protein Synthesis with a Novel ATP Regeneration System," *Biotech. & Bioeng. 66*:180-188, John Wiley & Sons, Inc. (1999)
	AT	5	Kim, R.G. and Choi, C.Y., "Expression-independent consumption of substrates in cell-free expression system from *Escherichia coli*," *J. Biotech. 84*:27-32, Elsevier Science B.V. (November 2000)

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	AL						Yes No
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	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	6	Kudlicki, W., *et al.*, "High Efficiency Cell-Free Synthesis of Proteins: Refinement of the Coupled Transcription/Translation System," *Analytical Biochem.* *206*:389-393, Academic Press, Inc. (1992)
	AS	6	Lederman, M. and Zubay, G., "DNA-Directed Peptide Synthesis. I. A comparison of T_2 and *Escherichia coli* DNA-Directed Peptide Synthesis in Two Cell-Free Systems," *Biochim. Biophys. Acta 149*:253-258, Elsevier Publishing Company (1967)
	AT	6	Lesley, *et al.*, "Use of *in Vitro* Synthesis from Polymerase Chain Reaction-generated Templates to Study Interaction of *Escherichia coli* Transcription Factors with Core RNA Polymerase and for Epitope Mapping of Monoclonal Antibodies," *J. Biol. Chem. 266*:2632-2638, The American Society for Biochemistry and Molecular Biology (1991)

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	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	7	Linn, S. and Deutscher, M.P., "The Nucleases of *Escherichia coli*," in: *Nucleases*, Linn, S.M., *et al.*, eds., Cold Spring Harbor Laboratory Press, Plainview , New York, pp. 455-468 (1993)
	AS	7	Lopez, P.J., *et al.*, "The C-terminal half of RNase E, which oganizes the *Escherichia coli* degradosome, participates in mRNA degradation but not rRNA processing *in vivo*," *Mol. Microbiol. 33*:188-199, Blackwell Science, Ltd. (1999)
	AT	7	Lorenz, M.G. and Wackernagel, W., "Bacterial Gene Transfer Genetic Transformation in the Environment," *Microbiol. Rev. 58*:563-602, The American Society for Microbiology (1994)

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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	8	Makarova, O.V., *et al.*, "Transcribing of *Escherichia coli* genes with mutant T7 RNA polymerases: Stability of *lacZ* mRNA inversely correlates with polymerase speed," *Proc. Natl. Acad. Sci. USA 92*:12250-12254, National Academy of Sciences (1995)
	AS	8	Malamy, M.H. and Horecker, B.L., "Purification and Crystallization of the Alkaline Phosphatase of *Escherichia coli*," *Biochem. 3*:1893-1897, The American Chemical Society (1964)
	AT	8	Meador, J.III and Kennell, D., "Cloning and sequencing the gene encoding *Escherichia coli* ribonuclease I: exact physical mapping using the genome library," *Gene 95*:1-7, Elsevier Science Publishers B.V. (1990)

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	AR	9	Meador, J. III, *et al.*, "Purification and characterization of *Escherichia coli* RNase I," *Eur. J. Biochem. 187*:549-553, Springer International (1990)
	AS	9	Miller, O.L. Jr., *et al.*, "Visualization of Bacterial Genes in Action," *Science 169*:392-395, The American Association for the Advancement of Science (1970)
	AT	9	Mohanty, B.K. and Kushner, S.R., "Polynucleotide phosphorylase functions both as a 3'→ 5' exonuclease and a poly(A) polymerase in *Escherichia coli*," *PNAS 97*:11966-11971, National Academy of Sciences (October 2000)

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	AR	10	Murphy, K.C., "λ Gam Protein Inhibits the Helicase and χ-Stimulated Recombination Activities of *Escherichia coli* RecBCD Enzyme," *J. Bacteriol. 173*:5808-5821, American Society for Microbiology (1991)
	AS	10	Niyogi, S.K. and Datta, A.K., "A Novel Oligoribonuclease of *Escherichia coli*," *J. Biol. Chem. 250*:7307-7312, The American Society of Biological Chemists, Inc. (1975)
	AT	10	Noren, C.J., *et al.*, "A General Method for Site-Specific Incorporation of Unnatural Amino Acids into Proteins," *Science 244*:182-188, American Association for the Advancement of Science (1989)

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	AR	11	Patnaik, R. and Swartz, J.R., "*E. coli*-Based In Vitro Transcription/Translation: In Vivo-Specific Synthesis Rates and High Yields in a Batch System," *BioTechn. 24*:862-868, Eaton Publishing Company (1998)
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FORM PTO-1449

INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO.	APPLICATION NO.
0942.5250001/RWE/B-C	10/091,538
APPLICANT	
Chatterjee *et al.*	
FILING DATE	GROUP
March 7, 2002	1651

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U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA						
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FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

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	AN						Yes No
	AO						Yes No
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